

What is claimed is:

[c1] 1. A method of recognizing speech so as to modify a currently active vocabulary, comprising:

receiving an utterance;

comparing said received utterance to a stored recognition vocabulary representing a currently active vocabulary; and

dynamically updating the stored recognition vocabulary for subsequent received utterances based on said comparison.

[c2] 2. The method of claim 1, the received utterance being received in a voice dialog from a user, the step of dynamically updating the stored recognition vocabulary being based on a current state of user interaction in the voice dialog and on a recognition result.

[c3] 3. The method of claim 1, said step of dynamically updating the recognition vocabulary including running an application to update the stored recognition vocabulary.

[c4] 4. The method of claim 3, said application being an application run by a client device, or being an application run by a server in communication with the client device.

[c5] 5. The method of claim 4, wherein said application is a web-based application having multiple pages, said stored recognition vocabulary being dynamically updated as a user navigates between different pages.

[c6] 6. The method of claim 1, said step of receiving including extracting only information in said received utterance necessary for recognition.

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[c7] 7. The method of claim 1, said step of comparing including comparing a speech template representing said received utterance to said stored recognition vocabulary.

[c8] 8. A speech recognition system, comprising:
a client device receiving an utterance from a user; and
a server in communication with the client device, the client device comparing the received utterance to a stored recognition vocabulary representing a currently active vocabulary, recognizing the received utterance and dynamically updating the stored recognition vocabulary for subsequent received utterances.

[c9] 9. The system of claim 8, wherein the dynamically updating of the stored recognition vocabulary is dependent on a current state of user interaction in the voice dialog and on a recognition result from the comparison.

[c10] 10. The system of claim 8, the client device further including an application that dynamically updates the stored recognition vocabulary.

[c11] 11. The system of claim 8, the server further including a vocabulary builder application which dynamically updates the stored recognition vocabulary by sending data to the client application.

[c12] 12. The system of claim 11, said vocabulary builder application sending individual vocabulary elements to the client device for augmenting the currently active vocabulary.

[c13] 13. The system of claim 8, the server further including a database storing client-specific data that is updatable by the client device.

[c14] 14. The system of claim 8, the client device further including a processor for comparing a speech template representing said

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received utterance to said stored recognition vocabulary to obtain a recognition result, wherein the processor controls the client application to update the stored recognition vocabulary.

[c15] 15. The system of claim 14, said processor being a microprocessor-driven speech recognition engine.

[c16] 16. The system of claim 8, wherein the update to the stored recognition vocabulary is stored on the client device and on the server.

[c17] 17. The system of claim 10, wherein if the application is run on the server, the recognition vocabulary update is sent from server to client device via a communication path.

[c18] 18. The system of claim 17, said communication path being embodied as any one of a simultaneous voice data (SVD) connection, wireless data connection, wireless channels, ISDN connections, or PPP dial-up connections.

[c19] 19. A method of customizing a recognition vocabulary on a device having a current vocabulary of preset voice-activated commands, comprising:

receiving an utterance from a user that is designated to replace at least one of the preset voice-activated commands in the stored recognition memory; and

dynamically updating the recognition vocabulary with the received utterance.

[c20] 20. The method of claim 19, the user implementing a speaker-training feature on the device in order to dynamically update the recognition vocabulary.

[c21] 21. The method of claim 19, wherein the received utterance replaces a voice-activated command that is difficult for the device to

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recognize when input by the user, so as to enhance the usability of the device.

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